

## Claims

1. A synthetic resin multilayer structure (1) delimited by a top face (2), borders (3, 5) and a bottom face (4) of surface area substantially identical to that of the top face (2), said structure (1) comprising:
  - a first layer (6) defining said faces (2, 4) and said borders (3, 5),
  - a second layer (7), disposed between said faces (2, 4) and said borders (3, 5), of surface area at least equal to that of said faces (2, 4), characterized in that the second layer (7) forms at least one zigzag-shaped double fold (8, 9).
2. The multilayer structure (1) as claimed in claim 1, possessing an axis of symmetry.
3. The multilayer structure (1) as claimed in claim 1, containing a central orifice passing through said structure.
4. The multilayer structure (1) as claimed in claim 3, characterized in that it forms a tube shoulder.
5. The multilayer structure (1) as claimed in any one of the preceding claims, characterized in that a free end of the second layer (7) is in contact with the outer side of the structure at the level of one of said faces (2, 4).
6. The multilayer structure (1) as claimed in claim 5, in which a free end of the second layer (7) is in contact with the outer side of the structure at the level of the top face (2), whereas the other free end of the second layer (7) is in contact with the outer side of the structure at the level of the bottom face (4).

7. The multilayer structure (1) as claimed in any one of the preceding claims, characterized in that the second layer (7) itself forms a multilayer structure comprising a layer of barrier resin imprisoned between two layers of adhesive resin.  
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8. A process for producing a synthetic resin multilayer structure by compression molding of a multilayer dose of molten resin, consisting in extruding continuously or discontinuously a multilayer dose of thermoplastic resins containing at least one layer of functional resin, in feeding said dose into a compression device, in compressing said dose in the device in order to obtain the object, the compression process being characterized in that a part of the functional layer is entrained toward the periphery and another part toward the center, the functional layer thus obtained in the object by said process forming at least one zigzag-shaped double fold.  
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9. The process as claimed in claim 8, using a dose containing an orifice.  
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10. The process as claimed in claim 8 using a full dose.
11. The process as claimed in claim 8, consisting in locally performing a compression then decompression motion so as to create a flow of the functional layer toward the center.  
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12. A device for realizing multilayer structures as claimed in claims 1 to 7, additionally containing a mold and means for compressing a dose in the cavity of said mold, characterized in that the device contains parts in relative motion for  
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- 22 -

controlling the flow of the functional layer  
toward the center or toward the periphery.